S852

## **CONTENTS OF VOLUME 108**

| ALCOVER, JA. — See ALOMAR, G., MAYOL, J. and ALCOVER, JA  | 635        |
|---|------------|
| the Balearic Islands  Aubert, Ch., Galindo, JR., Rouge, F., Rorsman, H. and Rosengren, E. — Rela-   | 635        |
| tionship between culture conditions and phenotypic expression of human malignant melanocytes: morphological and biochemical studies of changes  |            |
| induced by methionine and glutamine medium deprivation  | 249        |
| elephants BENEST, D. — See POURRIOT, R., BENEST, D. and ROUGIER, C.   | 654        |
| Bernardi, G. — Genus and sub-genus in conventional and evolutive taxonomy  Betsch, JM. — See Gasc, JP., Betsch, JM. and Massoud, Z  | 135<br>467 |
| BIERNE, J. — See VERNET, G. and BIERNE, J.  BIRGI, E. and EUZET, L. — Monogenean parasites of freshwater fish from Cameron.  Presence of two genera Cichlidogyrus and Dactylogyrus in Aphyosemion | 257        |
| (Cyprinodontidae)   | 101        |
| BLANC, A. and BUISSON, B. — On the photoreceptive structures entraining the circadian activities of the Roman Snail ( <i>Helix pomatia</i> )  | 21         |
| BOUCAUD-CAMOU, E. — See HONDT, JLd' and BOUCAUD-CAMOU, E  | 27<br>21   |
| Cals-Usciati, J. — Successive life conditions and alimentary strategy in the larval instars of <i>Opius concolor</i> , an endoparasitoid entomophagous insect (Hyme-                              |            |
| noptera, Braconidae)  | 415        |
| Microarthropods in relation to the organic matter decomposition   | 371        |
| CASTILLO, R. — See NEGRE-SADARGUES, G., CASTILLO, R. and LENEL, R   | 277<br>389 |
| CHASSARD-BOUCAUD, C. — See Noël, PY., HUBERT, M., COUTURIER-BHAUD, Y. and CHASSARD-BOUCHAUD, C.   | 223        |
| CHAUDONNERET, J. — « Over-hasty evolution » and living fossils  | 562        |
| CHAUVIN, G., GUEGUEN, A. and CHAUVIN, J. — Nutrition and utilization of ingested energy in two keratophagous Tineid Lepidoptera   | 439<br>439 |
| CHAUVIN, J. — See CHAUVIN, G., GUEGUEN, A. and CHAUVIN, J   | 267        |
| pigmentation  |            |
| CHASSARD-BOUCHAUD, C  | 223        |
| development   | 409        |
| DAUVIN, JCL. and LEE, JH. — Pionosyllis prope weismanni (Annelida Polychaeta) n, sp.  | 129        |
| DELACHAMBRE, J. — See SOLTANI, N., DELACHAMBRE, J. and MAUCHAMP, B.  DELE, ML. — See MERLIN, JC. and DELE, ML.  | 289        |
| Descimon H — The pigments of Lepidoptera: a model for the synthetic theory of   | 303        |
| evolution  Durand, JP. — The evolution of Proteidae : new facts and hypotheses  | 617        |
| EMIG, CH. — On the relationships between panchronism and ecological conditions in<br><i>Lingula</i> (Brachiopoda, Inarticulata)   | 558        |
| FUZET I — See BIRGI E, and EUZET L.   | 101        |
| EUZET, L. — See RAKOTOFIRINGA, S. and EUZET, L  | 107<br>195 |
| GALINDO, IR. — See AURERT CH., GALINDO, JR., ROUGE, F., KORSMAN, H. and   |            |
| ROSENGREN, E  | 249        |
| Collembola in the dense, humid forest litter in French Guiana   | 467        |

| GILLON, Y. — See LOUVEAUX, A., MAINGUET, AM. and GILLON, Y.  | 453  |
|--|------|
| GOVERNIM — Panchronism and resistance to environmental aggression in Scorpions                     | 585  |
| GUEGUEN A — See CHALIVIN G., GUEGUEN, A. and CHAUVIN, J  | 439  |
| GUILLEMIN C — Comparison of skin allograft rejection in diploid and trisomic                       |      |
| adults of the new Pleurodeles waltlii (Amphibia, Urodela)  | 93   |
| HENRY, C. — Interest of diet structure in the study of food searching by generalists               |      |
| predators  | 365  |
| HONDT, JL. d' and BOUCAUD-CAMOU, E. — Study on the intestine and the digestiv                      |      |
| gland of <i>Terabratulina retusa</i> (L.) (Brachiopoda). Localisation of enzymatic                 |      |
| giand of Terabratutha retusa (L.) (Brachiopoda). Edeansation of Cheymane                           | 27   |
| activities   | 37   |
| Hourdry, J. — See Pouyet, JCl., Mesnard, J. and Hourdry, J   |      |
| HOURDRY, J. — See DAUCA, M. and HOURDRY, J.  | 409  |
| HUBERT, M. — See Noël, PY., HUBERT, M., COUTURIER-BHAUD, Y. and CHASSARD-                          |      |
| Boucaud, C.  | 223  |
| JANVIER, PH. — Panchronic groups, "living fossils" and systematics: the "Crossopte-                |      |
| rygii'' and the Petromyzontida as examples   | 609  |
| JUCHAULT, P. — See RAIMOND, R. and JUCHAULT, P   | 79   |
| KABAMBA, M. — See TINTANT, H. and KABAMBA, M.  | 569  |
| LAMOTTE, M. — Introduction to the round table diets and food rations in the animal                 |      |
| kingdom  | 345  |
| LAMY, J. — The hemocyanin structure: a powerful tool for studying Chelicerate                      |      |
| evolution  | 593  |
| LAUVERGNE, JJ. — Use of the principle of interspecific homology in studying the                    | 575  |
| genetics of coat color in domestic ruminants: the <i>Agouti</i> locus as an illustration           | 221  |
|  | 231  |
| LEE, JH. — See DAUVIN, JCL. and LEE, JH.   | 129  |
| LEGRAND, JJ. — Presidential speech   | 161  |
| LENEL, R. — See NEGRE-SADARGUE, G., CASTILLO, R. and LENEL, R                                      | 277  |
| Lescher-Moutoue, F. — See Pourriot, R. and Lescher-Moutoue, F                                      | 485  |
| LOUVEAUX, A., MAINGUET, AM. and GILLON, Y. — Meaning of differences between                        |      |
| nutritive value of wheat leaves, young or matured, given as food to Locusta                        |      |
| migratoria   | 453  |
| LUCAS, Y. DE, and ROY, R. — On the terminology of diets in the animal kingdom                      | 347  |
| LUCAS, A. — Evaluation of the food rations of marine microphages, with bivalve                     |      |
| larvae as example  | 423  |
| Mainguet, AM. — See Louveaux, A., Mainguet, AM. and Gillon, Y                                      | 453  |
| Massoud, Z. — See Gasc, JP., Betsch, JM. and Massoud, Z  | 467  |
| MATHIEU, J. — Respiratory metabolism of a karstic population of Niphargus rhenor-                  |      |
| hodanensis (Amphipoda, Gammaridae). Influence of temperature                                       | 67   |
| MAUCHAMP, B. — See SOLTANI, N., DELACHAMBRE, J. and MAUCHAMP, B.                                   | 698  |
| MAYOL, J. — See ALOMAR, G., MAYOL, J. and ALCOVER, JA.   | 635  |
| MERLIN I -C and DELE M. I — RAMAN spectroscopic study of some goral                                | 033  |
| MERLIN, JC. and DELE, ML. — RAMAN spectroscopic study of some coral pigmented calcareous skeletons | 200  |
| MESNARD, J. — See Pouyer, JC., Mesnard, J. and Hourdry, J.   | 289  |
| NAULLEAU, G. — The effects of temperature on digestion in five species of european                 | 37   |
| vipers of genus Vipers   |      |
| vipers of genus Vipera   | 47   |
| NEGRE-SADARGUES, G., CASTILLO, R. and LENEL, R. — Endocrine elements and                           |      |
| metabolism of carotenoid pigments in Crustacea   | 277  |
| NICOLAS, G. — Contribution to the study of the pigmentary polymorphism in the                      |      |
| migratory locust, Locusta migratoria L. (Orthoptera)   | 205  |
| Noël, PY. — Introduction: animal pigmentation and its aspects                                      | 169  |
| Noël, PY., Hubert, M., Couturier-Bhaud, Y. and Chassard-Bouchard, C. —                             |      |
| Ultrastructural study of Crustacean chromatophores   | 223  |
| NOUIRA, S. — Sharing of trophic resources between two sympatric lacertidae of                      |      |
| Kerkennah islands (Tunisia): Acanthodactylus pardalis and Framias olivieri                         | 477  |
| ORTONNE, JP. — See Voulot, C. and Ortonne, JP.   | 243  |
| POINSOT-BALAGUER, N. — See CANCELA DA FONSECA I -P and POINSOT-RALAGUER NI                         | 371  |
| POURRIOT, R., BENEST, D. and ROUGIER C. — The effect of temperature on the                         | 3/1  |
| hatching of Brachionus resting eggs collected in natural populations                               | 59   |
| POURRIOT, K. and LESCHER-MOUTOUF F. — Feedings strategies in freshwater                            | 39   |
| zooplankton — a review   | 40.5 |
|  | 485  |

| POURRIOT, R Pigmentation, vulnerability and adaptive strategies in freshwater   |     |
|---|-----|
| zooplankton   | 123 |
| POUYET, JC., MESNARD, J. and HOYRDRY, J. — Histological and dynamic changes of  |     |
| gastric region in thyroxine-treated larvae of Discoglossus pictus (Amphibia,  |     |
| Anura)  | 37  |
| Praet, M. van. — Diet of sea anemones   | 403 |
| RAABE, M. — Neurohumoral regulation of color change processes in insects: morpho-   |     |
| logical and physiological color change  | 185 |
| RAIBAUT, A. — See ROUSSET, V. and RAIBAUT, A.   | 115 |
| RAIMOND, R. and JUCHAULT, P. — Biological cycle of <i>Sphaeroma serratum</i> Fabricius (Crustacea, Isopoda, Flabellifera) from a littoral population of Charente- |     |
| Maritime (France). Comparaison with more meridional populations   | 79  |
| RAKOTOFIRINGA, S. and EUZET, L. — Monogenean parasites of endemic Cichlidae   | 19  |
| (Teleostei) from Madagascar   | 107 |
| RICQLES, A. DE — Introduction to the round table "Panchronic forms and living   | 107 |
| fossils"  | 529 |
| RICQLES, A. DE — Concluding remarks   | 664 |
| RORSMAN, H. — See AUBERT, Ch., GALINDO, JR., ROUGÉ, F., RORSMAN, H. and   | 004 |
| Rosengren, E.   | 249 |
| ROSENGREN, E. — See AUBERT, CH., GALINDO, JR., ROUGÉ, F, RORSMAN, H. and  |     |
| ROSENGREN, E  | 249 |
| Rougé, F See Aubert, Ch., Galindo, JR., Rougé, F., Rorsman, H. and  | 21) |
| Rosengren, E.   | 249 |
| ROUGIER, C. — See POURRIOT, R., BENEST, D. and ROUGIER, C.  | 59  |
| ROUSSET, V. and RAIBAUT, A Integration of new structural characters to the  |     |
| systematic of Chondracanthidae (Copepoda, Poecilostomatoida)  | 115 |
| Roy, R. — See Luca, Y. and Roy, R.  | 347 |
| SAINT GIRONS, H. — The Sphenodon: Ecological features and some hypotheses   |     |
| concerning its evolution  | 631 |
| SAINT GIRONS, H. — Diet and food rations of serpents  | 431 |
| SECRETAN, S. — The panchronic features of Paromola  | 580 |
| SOLTANI, N., DELACHAMBRE, J. and MAUCHAMP, B. — Effects of diflubenzuron on the   |     |
| pupal cuticle of Tenebrio molitor   | 698 |
| TILLIER, S. — Secondary structures in the lung and in the ureter of Stylommatophora   | 0   |
| slugs (Pulmonata)   | 9   |
| The evolution and classification of Nautilacea  | 569 |
| TERMIER, H. and TERMIER, G. — Panchronics forms or living fossils?  | 534 |
| TERMIER, G. — See TERMIER, H. and TERMIER, G.   | 534 |
| VACELET, J. — Hypercalcified sponges, relicts of the Paleozoic and early Mesozoic   | 227 |
| reef-builders   | 547 |
| Vernet, G. and Bierne, J. — Studies on body color of three nemerteans ( <i>Lineus</i>   | 517 |
| sanguineus, L. pseudolacteus and L. lacteus): use as tissue marker in inter-  |     |
| specific chimeras   | 257 |
| VOULOT, C. and ORTONNE, JP Phaeomelanic melanogenesis and « Yelow »   |     |
| A <sup>y</sup> /a mice  | 243 |
| Voss, J. — Changes of colour patterns and strategies of reproduction in Cichlids and  |     |
| Labrids fishes  | 215 |
| VUILLAUME, M. — Physiological and biochemical role of light on the larval metabolism  |     |
| of Pieris brassicae   | 313 |
| WALTER, PH. — The importance of necrophagia in the food diet of tropical african  |     |
| coprophagic Scarabaeidae  | 397 |

## CONTENTS

| A. DE RICQLES. — Introduction to the round table "Panchronic forms and living fossils"  | 529 |
|---|-----|
| H. and G. Termier. — Panchronic forms or living fossils?  | 534 |
| J. VACELET. — Hypercalcified sponges, relicts of the Paleozoic and early Mesozoic reef-builders   | 547 |
| CH. C. EMIG. — On the relationships between panchronism and ecological conditions   | 550 |
| in Lingula (Brachiopoda, Inarticulata)  | 558 |
| J. CHAUDONNERET. — "Over-hasty evolution" and living fossils  | 562 |
| H. TINTANT and M. KABAMBA. — The Nautilus, living fossil or cryptogenic form?   |     |
| The evolution and classification of Nautilacea  | 569 |
| S. Secretan. – The panchronic features of Paromola  | 580 |
| M. GOYFFON. – Panchronism and resistance to environmental aggression in scorpions HN. LAMY. – The hemocyanin structure : a powerful tool for studying chelicerate | 585 |
| evolution   | 593 |
| PH. JANVIER. — Panchronic groups, "living fossils" and systematics: the "Crossop-   | 393 |
| terygii' and the Petromyzontida as examples   | 609 |
| JP. Durand. — The evolution of Proteidae: new facts and hypotheses  | 617 |
| H. Saint Girons. — The Sphenodon: ecological features and some hypotheses   | 017 |
| concerning its evolution  | 631 |
|   | 031 |
| G. ALOMAR, J. MAYOL and JA. ALCOVER. <i>Baleaphryne</i> and relict vertebrates in the   | (25 |
| Balearic Islands  | 635 |
| JCh. Balouet. – Are paleognates (aves) primitive?   | 648 |
| M. BEDEN. – New data on dimorphism and growth in the skulls of present and past   | (51 |
| elephants   | 654 |
| A. DE RICQLES. — Concluding remarks   | 664 |
| Demonstrations  | 666 |
| N. SOLTANI, J. DELACHAMBRE and B. MAUCHAMP. — Effects of diflubenzuron on the   |     |
| punal autials of Tanahria malitar   |     |

Achevé d'imprimer le 15 avril 1984.

Commission paritaire N° 62527.

Printed in France.

Le Directeur de la publication : André BEAUMONT

Imprimerie Fontaine, Route de Bignoux, Poitiers Avril 1984 « Dépôt légal 2° trimestre 1984 — N° 100684 ».